Index of Claims

| Application No | <b>).</b> | Applicant(s)    |   |
|----------------|-----------|-----------------|---|
| 10/695,880     |           | HEIDEL, JEFFREY | • |
| Examiner       |           | Art Unit        |   |
| C. J. Arbes    |           | 3729            |   |

| √ | Rejected |
|---|----------|
| = | Allowed  |

| - | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| + | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| _ | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

| Claim             | Date                                   |                       |                      | Claim Date          |               |                         |  |          |          |                         | CI      | aim      | Date     |          |              |          |            |                      |                     |               |   |              |  |                 |               |          |
|-------------------|--|-----------------------|----------------------|---------------------|---------------|-------------------------|--|----------|----------|-------------------------|---------|----------|----------|----------|--------------|----------|------------|----------------------|---------------------|---------------|---|--------------|--|-----------------|---------------|----------|
|                   | <u> </u>                               | ]                     |                      | Π                   |               |                         |  |          | T        |                         | T       |          | Т        |          |              |          |            | <sub>         </sub> |                     |               |   |              |  |                 |               | 1        |
| Final<br>Original | 3/24/05                                | 6/10/05               |                      | ΙÌ                  |               | 1                       | Final  | Original |          |                         |         |          |          |          | 1            |          | Final      | Original             |                     |               | ı   |              |  |                 | ĺ             |          |
| 뉴   뜻             | 32                                     | 뚫                     |                      |                     |               | 1                       | iĒ   | Ĕ        |          |                         |         |          |          |          |              |          | ίΞ         | ) ii                 |                     | - 1           |   |              |  |                 | .             | -        |
|                   | Ľ                                      |                       |                      |                     |               | Ш                       |  |          | _        |                         |         | Ш        | _        |          | 1_           |          |            |                      | $\rightarrow$       |               | $\bot$  | 1            | ــــــــــــــــــــــــــــــــــــــ | Ш               | _             |          |
| 1                 | r                                      | V                     | _                    | Ш                   |               | Ш                       |  | 51       | _        | $\bot$                  | _       | $\sqcup$ | _        |          | ↓            |          |            | 101                  | _                   | $\bot$        | 4   | $\bot$       | ļ.,                                    | $\sqcup$        | _             | _        |
| 2                 | е                                      | Ш                     |                      | $\sqcup \bot$       |               | Ш                       | $\Box$   | 52       |          | _                       | 4.      | 1_       | 4        | $\perp$  | 1_           |          |            | 102                  | _                   | 4             | $\perp$   | $\bot$       | _                                      | Ш               | $\dashv$      | _        |
| 3                 | s                                      | Ш                     | _ _                  | Ш                   | ٠.            | $\bot$                  | $\Box$   | 53       | 4        | _                       | 4-      | 1        | $\dashv$ | $\perp$  | ↓_           |          |            | 103                  | _                   | -             | - -   | +            | $\vdash$                               | Н               | $\dashv$      |          |
| 4                 | t                                      | Ш                     |                      | Ш                   |               | 4-4                     | $\Box$   | 54       | _        |                         | _       | $\sqcup$ | _        | $\perp$  | 1            |          |            | 104                  |                     | -             | _   | -            | ↓_                                     |                 | $\dashv$      | _        |
| 5                 | r                                      | Ш                     | _                    | $\vdash$            |               | $\bot$                  |  | 55       | _        | _                       | $\perp$ | $\vdash$ | $\dashv$ | +        | ╄            |          |            | 105                  | 4                   | +             | +   | +            | ╄                                      | $\sqcup$        | $\dashv$      | _        |
| 6                 | i                                      | $\sqcup \!\!\! \perp$ |                      | $\sqcup$            | $\bot$        | 4-4                     | ļļ   | 56       | _        | _                       | +       | $\vdash$ | _        | -        | <b>.</b>     |          |            | 106                  | _                   | +             | +   | +            | -                                      |                 | $\dashv$      | 4        |
| 7                 | С                                      | ш                     |                      | ₩.                  | -             | <del> </del>            | $\vdash \vdash$                                  | 57       | -        | _                       | +       | $\vdash$ | -        | -        | +            |          |            | 107                  | $\dashv$            | -             | +   | +            | ╄                                      | $\vdash$        |               | _        |
| 8                 | t                                      | Ш                     |                      | <b>├</b> ┼          | +             | +                       |  | 58       |          |                         |         | $\vdash$ | -        |          | <u> </u>     |          |            | 108                  | -                   | +             | +   | ┿            | ┢                                      | $\vdash$        | -             | -        |
| 9                 | Į.                                     | Ш                     | $\bot$               | ₩                   | _             | $\vdash$                |  | 59       | $\dashv$ | +                       | +-      | $\vdash$ | $\dashv$ | _        | -            |          |            | 109                  | -+                  |               | -   | +            | ╁                                      | Н               | $\dashv$      | $\dashv$ |
| 10                | 0                                      | Ш                     | -                    | $\vdash$            |               | $\vdash$                | <b>  </b>  | 60       | $\dashv$ | +                       | +       | $\vdash$ |          | +        | $\vdash$     |          | <u> </u>   | 110                  | $\dashv$            | +             | +   | +            | -                                      | $\vdash$        | $\dashv$      | $\dashv$ |
| 11                | n                                      |                       | ++                   | ++                  |               | +                       | ├  | 61       | $\dashv$ | +                       | +-      | ╁┤       | -+       | +        | $\vdash$     |          |            | 111                  | $\dashv$            | +             | +   | +            | $\vdash$                               | $\vdash$        | $\dashv$      | $\dashv$ |
| 12                | #                                      | _                     | ++                   | ╁┼                  | +             | +                       | $\vdash$   | 62       | $\dashv$ | +                       | +       | +        | $\dashv$ | +        | +-           |          |            | 112<br>113           | $\dashv$            |               | +   | ╁            | ╁                                      | Н               | $\dashv$      | $\dashv$ |
| 13                | 11                                     | <u> </u>              | ++                   | ╁╌┼╴                | +             | +                       |  | 63<br>64 | $\dashv$ | +                       | +       | $\vdash$ | $\dashv$ | +        | $\vdash$     |          |            | 113                  | $\dashv$            | $\dashv$      | +   | +-           | ┼                                      | $\vdash$        | $\dashv$      | $\dashv$ |
| 14                | H                                      | n                     | ++                   | ╁┼                  | +             | +                       | $\vdash$   | 65       | $\dashv$ | -                       | ÷       | $\vdash$ | $\dashv$ | +        | +-           |          |            | 115                  | -                   | +             | +   | ╁            | ╁                                      | Н               | $\dashv$      |          |
| 15                | ₩                                      | n                     | +                    | +                   |               | +                       | <del>  </del>                                    | 66       | $\dashv$ | +                       | +       | $\vdash$ | $\dashv$ | +        | +            |          |            | 116                  | $\dashv$            | $\dashv$      | +   | +            | $\vdash$                               | H               | $\dashv$      | $\dashv$ |
| 16<br>17          | H                                      | n<br>n                |                      | ++                  | +             | +                       | $\vdash$   | 67       | $\dashv$ | $\dashv$                | +       | +        | $\dashv$ | +        | +            |          |            | 117                  | $\dashv$            | +             | +   | ╁            | +                                      | H               | $\dashv$      | $\dashv$ |
| 18                | ₩                                      |                       | <del>-   -  </del> - | ++                  | +             | +                       | $\vdash$   | 68       | $\dashv$ | +                       | +       | +-       | $\dashv$ | +        | +            |          |            | 118                  | $\dashv$            | $\dashv$      | +   | ╁            | +-                                     | Н               | $\dashv$      | $\dashv$ |
| 19                | ╫                                      | n<br>n                |                      | $\vdash$            | +-            | +                       | <del>                                     </del> | 69       | ⇥        | +                       | +       | +        | $\dashv$ | $\dashv$ | +            |          |            | 119                  | $\dashv$            | +             | +   | +-           | +                                      | $\vdash$        | $\dashv$      | $\dashv$ |
| 20                | ╫                                      | n                     | <del>-  -  </del>    | ++                  | +             | +                       | ┝─┤  | 70       | $\dashv$ | +                       | +       | $\vdash$ | $\dashv$ | +        | +            |          |            | 120                  | $\dashv$            | +             | +   | +            | +                                      | Н               | $\dashv$      | $\dashv$ |
| 21                | H                                      | n                     | +                    | ++                  | +             | +                       | <b></b>  | 71       | $\dashv$ | +                       | +-      | ╁╌┤      | $\dashv$ | +        |              |          |            | 121                  | $\dashv$            | +             | +-  | +            | +                                      | $\vdash$        | $\dashv$      | $\dashv$ |
| 22                | ╫╴                                     | n                     |                      | ++                  | +-            | +                       | <del>├</del>                                     | 72       | $\dashv$ | +                       | +       | +        | $\dashv$ | +        | $\vdash$     |          |            | 122                  | $\dashv$            | +             | +   | +            | +                                      | $\vdash$        | $\dashv$      | $\dashv$ |
| 23                | ╫                                      | n                     |                      | $\vdash$            | +-            | +-                      | $\vdash \vdash \vdash$                           | 73       | $\dashv$ | +                       | +       | H        | $\dashv$ |          | $\vdash$     |          |            | 123                  | $\dashv$            | +             | $\top$  | +            | $\vdash$                               | $\vdash$        | $\dashv$      | $\dashv$ |
| 23                | #                                      | n                     | -+-                  | +                   | +             | +                       | $\vdash \vdash \vdash$                           | 74       | $\dashv$ | -                       | +       | H        | $\dashv$ |          |              |          |            | 124                  | $\dashv$            | $\dashv$      | $\dashv$  | +            | $\vdash$                               |                 | $\dashv$      | $\dashv$ |
| 25                | ╫╴                                     | H                     | <del></del>          | +                   | $\dashv$      | $\dagger \exists$       | $\vdash$   | 75       | 十        | $\dashv$                | +       | H        | $\dashv$ | $\top$   | 1            |          |            | 125                  | $\dashv$            | $\top$        | $\top$  | Τ            | T                                      | П               | ┪             | $\neg$   |
| 26                | 1                                      | Н                     | +                    | +                   | +             | $\forall$               | <del>                                     </del> | 76       | $\dashv$ | +                       | +       | +        | $\dashv$ | $\top$   | $\top$       |          |            | 126                  | $\dashv$            | _             | +   | $\top$       | 1                                      | П               | $\dashv$      | $\dashv$ |
| 27                | ⇈                                      | H                     | ++                   | t                   |               | +                       |  | 77       | $\dashv$ | $\top$                  | +       |          | 十        | $\top$   | Т            |          |            | 127                  | $\Box$              | $\top$        | 十   | $\top$       | 1                                      | П               | $\dashv$      | ヿ        |
| 28                | #                                      | H                     | +                    | $\vdash$            | $\dashv$      | $\vdash$                | $\vdash \vdash$                                  | 78       | $\dashv$ | $\top$                  | $\top$  | $\Box$   | 十        | $\top$   | T            | ::::i    |            | 128                  | 1                   | $\top$        | 十   | 1            | 1                                      | $\sqcap$        | $\dashv$      | $\neg$   |
| 29                | 1                                      | H                     |                      | $\vdash$            | $\dashv$      | $\forall$               | $\vdash$   | 79       | 十        | $\top$                  | T       | П        | $\neg$   | 1        | Т            |          |            | 129                  | $\neg$              | $\top$        | 十   | Τ            | Τ                                      |                 | ヿ             | ヿ        |
| 30                | 1                                      | 4                     | _                    | TT                  |               | $\dagger \dagger$       |  | 80       | 1        | $\top$                  | T       |          | $\neg$   |          | 1            | ا        |            | 130                  | $\Box$              | $\top$        |   | Τ            |  |                 |               | $\Box$   |
| 31                | IT                                     | 1                     |                      | $\vdash$            | $\neg \vdash$ | $\top$                  |  | 81       | 寸        | T                       | Т       | П        |          |          | 1            |          |            | 131                  |                     | $\top$        | $\top$  | T            |  |                 |               | $\neg$   |
| 32                | Ħ                                      | H                     |                      | $\sqcap$            | $\neg$        | $\top$                  |  | 82       | _        | 1                       | $\top$  | П        | ヿ        |          | T            | <b> </b> |            | 132                  |                     |               | $\top$  | T            |  |                 | $\Box$        | $\Box$   |
| 33                | 11                                     | V                     |                      | $\Box$              | $\top$        | П                       |  | 83       |          |                         |         |          |          |          |              |          |            | 133                  |                     | $\Box$        |   | $\mathbf{I}$ |  |                 |               | $\Box$   |
| 34                | 1                                      | 7                     | -                    | $\sqcap$            | $\neg$        | $\top$                  |  | 84       |          |                         |         |          |          |          | $oxed{\Box}$ |          |            | 134                  |                     | $oxed{T}$     | J   | $\prod$      |  |                 |               |          |
| 35                | I                                      | 1                     |                      |                     |               | $\Box$                  |  | 85       |          |                         | Ι       |          |          |          |              | <b>]</b> |            | 135                  |                     | $oxed{oxed}$  | $oldsymbol{\perp}$                                | $\perp$      |  | Ш               |               |          |
| 36                |  |                       |                      | $\Box$              |               |                         |  | 86       |          | $oldsymbol{\mathbb{T}}$ | I       |          |          |          |              |          |            | 136                  |                     | $oxed{\prod}$ | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ | $\perp$      |  |                 | $\Box$        |          |
| 37                |  |                       |                      | $\Box \Box$         |               |                         |  | 87       |          | $\perp$                 | $\perp$ | $\Box$   |          |          |              |          |            | 137                  | $\Box$              | $\perp$       |   | $\perp$      |  | Ш               |               |          |
| 38                |  |                       |                      |                     |               |                         |  | 88       |          |                         | L       | Ш        |          |          |              |          |            | 138                  | $\Box$              | $\perp$       |   | L            |  | Ш               | $\Box$        | _        |
| 39                |  |                       |                      | $\Box \Box$         |               |                         |  | 89       | $\Box$   |                         | $\perp$ |          | $\Box$   |          | $\perp$      |          |            | 139                  | $\Box$              |               | _   | 1            | <u> </u>                               | Ш               | ┙             | Ш        |
| 40                |  |                       |                      |                     |               | Ш                       |  | 90       |          |                         | $\perp$ |          | ]        | <u> </u> | _            |          |            | 140                  |                     | $\perp$       | $\perp$   | $\perp$      | _                                      | Ш               | ightharpoonup | _        |
| 41                |  | Ш                     |                      | $\Box$              |               | Ш                       |  | 91       | [        | $\perp$                 | 1       | $\sqcup$ |          | $\perp$  | $\perp$      |          | L          | 141                  | Ц                   | $\perp$       | $\perp$   | 丄            | ┺                                      | Ш               | $\sqcup$      |          |
| 42                |  | $\Box$                | $\bot \bot$          | igsquare            |               | Ш                       |  | 92       | _        |                         | $\perp$ | Ш        | _        |          | 1            |          |            | 142                  | $\sqcup \downarrow$ | _             | _ _   | $\bot$       | ╀                                      | Ш               | Д,            | ᆜ        |
| 43                | _                                      | $\sqcup$              |                      | $\perp \perp$       |               | Ш                       | $\sqcup \sqcup$                                  | 93       | _        | $\perp$                 | 4       | Ш        | _        |          | ↓_           | <b> </b> | <u> </u>   | 143                  |                     | 4             | $\bot$  | $\perp$      | 1                                      | Ш               | $\dashv$      | _        |
| 44                | ┞_                                     | $\sqcup$              | $\bot\bot$           | $\bot \bot$         |               | ш                       | $\sqcup$   | 94       | $\perp$  | $\bot$                  | 4       | $\sqcup$ | $\dashv$ | _ _      |              |          | <u> </u>   | 144                  | $\vdash$            | $\dashv$      | _   | +            | 1                                      | Ш               | $\dashv$      | $\dashv$ |
| 45                | ↓_                                     | $\sqcup$              | $\bot\bot$           | $\sqcup \bot$       |               | igspace                 |  | 95       | _        | $\bot$                  | 4       | Ш        | _        |          | ↓_           |          |            | 145                  | $\sqcup$            | -             |   | +            | $\vdash$                               | Ш               |               | _        |
| 46                | $oldsymbol{oldsymbol{oldsymbol{eta}}}$ | $\sqcup$              |                      | $\vdash \downarrow$ |               | Щ                       | $\sqcup$   | 96       | _        | 4                       | $\bot$  | $\vdash$ | _        | $\perp$  | ┼-           |          |            | 146                  | $\sqcup$            | $\dashv$      | +   | 4            | ↓_                                     | Ш               |               | _        |
| 47                | 1                                      | $\sqcup$              |                      | $\sqcup$            | 4-            | $\downarrow \downarrow$ | $\sqcup$   | 97       | _        | _                       | +       | $\vdash$ | $\dashv$ | $\perp$  | ╀-           |          | <u> </u>   | 147                  | $\sqcup$            | 4             | 4   | +            | +                                      | $\vdash \dashv$ | ⊣             |          |
| 48                | ــــ                                   | Щ                     | _ _                  | $\sqcup$            | $\perp$       | $\perp$                 | $\vdash \vdash \downarrow$                       | 98       | $\dashv$ | _ _                     | +       | Н        | $\dashv$ | $\dashv$ | ╄            |          | ļ          | 148                  | ${oxdot}$           | +             |   | +            | +                                      | $\vdash$        | $\dashv$      | $\dashv$ |
| 49                | ╙                                      | Щ                     | _ _                  | $\vdash \vdash$     | $\perp$       | 4                       | $\longmapsto$                                    | 99       | -1       | 4-                      | +       | Н        | $\sqcup$ | $\dashv$ | ╀            |          | <b> </b> - | 149                  | $\vdash \vdash$     | +             | +   | +            | +-                                     | $\vdash$        | $\dashv$      | 4        |
| 50                | <u>L</u>                               |                       |                      | $\perp$             |               |                         |  | 100      |          |                         | 丄       |          |          | $\perp$  |              | Jiiiii   | L          | 150                  | Щ.                  |               | ᆚ   |              |  | Ш               | $\Box$        | Ш        |